ANL Nanoscience Workshop agenda, July 15 and July 19, 2004

15 minute talks, 10 minute discussion.

Thursday, July 15, 2004	
Building 402, E1100 (behind APS	auditorium)

9:00	Eric Isaacs - Introduction
9:05	Sam Bader – Opportunities in nanomagnetism
9:30	George Crabtree - Quantum interactions in nanostructures.
9:55	Frank Fradin – Quantum Computation with electron spins: qubit networks of endohedral N in C_{60}
10:20	break
10:35	Paul Fuoss – X-ray Scattering from optically trapped nanoparticles
11:00	John Freeland – X-ray enhanced STM
11:25	Xiao-Min Lin – Synthesis, Self-assembly and Physical Properties of Colloidal Nanoscale Building Blocks
11:50	Seth Darling - Hierarchical Self-Assembly as a Route to Functional Nanomaterial
12:15	lunch at the Guest House
1:30	Tijana Rajh – Bioinorganic hybrid systems
1:55	Lin Chen - Property Control of Organic Semiconductor Nanoparticles by Hierarchic Structural Manipulation
2:20	break
2:45	David Tiede – Biomimetics for Energy
3:10	Andrew Goshe – Supramolecular Nanoscience
3:35	Larry Curtiss - Nanocatalysis
4:00	Discussion

Nanoscience Workshop agenda (cont.), Monday, July 19, 2004 Building 401, A5000

3:45

Discussion

9:15 Peter Zapol – Virtual Fab Lab 9:40 Orlando Auciello – Science of complex oxides and interfaces at the nanoscale. 10:05 Brian Reiss - Biological Routes to Functional Ferroelectric Surfaces 10:30 break 10:45 Dieter Gruen - The Role of Electronic Configuration Hybridization and Electron-Phonon Interactions in Determining the Electronic Properties of Nanostructured Carbon Composites 11:10 John Carlisle - Synthesis, Properties, and Applications of NanoCarbons 11:35 Julius Jellinek – Computational Electron Spectroscopy – A powerful tool for studies of properties at the nanoscale 12:00 lunch 1:00 Greg Ballantine - Magnetic Nanoclusters 1:25 Vijay Tirumala - Developing Hydrogel-based Smart Nanomaterials Derrick Mancini – Microfluidic Studies of Nanofludics 1:50 2:15 break 2:30 Shufang Yu – Nano Sensing Devices Gary Weiderrecht - Nanophotonics 2:55 3:20 Leo Ocola – New directions for the Center for Nanoscale Materials (CNM)